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LOW COST REAL TIME INTERACTIVE ANALYSIS SYSTEM

by

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Efforts continue, to develop a low cost real-time interactive analysis system for the reception of satellite data. A multi-purpose ingest hardware software frame formatter has been demonstrated for GOES and TIROS data and work is proceeding on extending the capability to receive GMS data. A similar system has been proposed as an archival and analysis system for use with INSAT data and studies are underway to modify the system to receive the planned SeaWiFS (ocean color) data. This system has been proposed as the core of a number of international programs in support of U.S. AID activities. The following systems have been delivered or are nearing final testing:

- NOAA-SOCC -for the analysis of TIROS instrument performance
- GSFC-(612) -real time GOES reception for severe storms research
- U.S. AID Fiji Islands-GMS real time reception for disaster warning system in Southwest Pacific
- U.S. AID Bangladesh -Agro-Climatic and Economic Development Program

Systems under development

- NSF/NOAA/NASA-INSAT data archival and analysis system
- NASA/EOSAT -Real time reception of Seawifs ocean color data
- EOS/NASA -Studies have been initiated for a real time system for EOS polar platform research data.

Software Development:

A substantial amount of work has been directed toward improving software application programs; these have been in support of the Bangladesh and Fiji science applications training activities and include: Agro-Meteorology, Hydrology, Meteorology (Severe Storms and TOVS) and Satellite Oceanography.

In addition, important software packages have been received from the National Weather Service (SLOSH) and the Federal Emergency Management Agency (IEMIS), and are being integrated into existing software systems to become the basis of a disaster warning and economic development program spatial analysis and modeling system for Third World countries.

This software development activity will be directly applicable to the development of Eos data systems and data exchange programs involving the use of Eos real time data from the international community.